

89-7-12/32

AUTHOR: Saul'yev, V.K.

TITLE: Some Comments on the Problem of the Computation of Cylindrical Reactors (Zamechaniye k voprosu o raschete tsilindrcheskikh reaktorov)

PERIODICAL: Atomnaya Energiya, 1957, Vol. 3, Nr 7, pp. 53-54 (USSR)

ABSTRACT: In the case of reactors which are idealized in the shape of spheres or infinite cylinders, the coefficients of neutrons increase and the critical dimensions of the reactors (in the diffusion age approximation) with subsequent solution of the group equation can be solved by means of difference factorization. (I.G.Marchuk, Atomnaya Energiya, 1956, Vol. 1, Nr 2, p.11). This method can be subdivided into two stages: 1.) Determination of the group constants; 2.) The solution of the group equations by means of the method of difference factorization. The author here starts from the following equation for the slowing down of neutrons in an "intermediary" reactor:

$$(-1/3 - \frac{1}{\tau_r}) \nabla^2 nv + \sum_c c nv + \partial (\sum_s nv) / \partial u = \nu S(r, z, u); S(r, z, u) = F(u) \sum_f f nv du.$$

Here \sum_{tr} , \sum_c , \sum_s , F and \sum_f are known experimental functions of u . For the numerical computation of this equation the author here uses

Card 1/2

Some Comments on the Problem of the Computation
of Cylindrical Reactors

89-7-12/32

the lattice $r_i = ih_1$, $z_j = jh_2$. For the purpose of simplification, the lattice is assumed to be quadratic ($h_1=h_2=h$) with equal step width in all zones. All formulae applied here are also given in matrix form. Next, approximations of the above equation are written down, i.e. an explicit and an implicit "inverted" scheme. The explicit scheme is by far more simple, but both schemes require quite a lot of arithmetical operations. In conclusion, the author proposes a scheme which is said to be free from these deficiencies, namely the "intersected scheme"; the corresponding formulae are explicitly given. There are 2 references, 2 of which are Slavic.

SUBMITTED: December 24, 1956

AVAILABLE: Library of Congress

1. Reactors - Design - Mathematical analysis

Card 2/2

SAUL' YEV, V.K.

20-6-7/48

AUTHOR: SAUL'YEV, V.K.TITLE: On a Numerical Integration Method for the Diffusion
Equations (Ob odnom sposobe chislennogo integrirovaniya
uravneniy diffuzii)PERIODICAL: Doklady Akad.Nauk SSSR, 1957, Vol. 115, Nr. 6,
pp. 1077-1079 (USSR)

ABSTRACT: For the integration of the equation

$$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2} \quad (0 < x < 1, 0 < t < T)$$

with the initial- and boundary conditions $u(x,0) = f(x)$, $0 \leq x \leq 1$; $u(0,t) = u(1,t) = 0$, $t > 0$ the author proposes a new method which seems to be suitable there where the behavior of stability and not the convergence is of dominating interest.

SUBMITTED: March 7, 1957
AVAILABLE: Library of Congress
Card 1/1

SAUL' YEV, V. K.

20-1-8/42

AUTHOR:

SAUL' YEV, V. K.

TITLE:

On the Question of the Numerical Integration of Parabolic Equations (K voprosu o chislennom integrirovani parabolicheskikh uravneniy)

PERIODICAL: Doklady Akad.Nauk SSSR, . 1957, Vol.117, Nr 1, pp36-39(USSR)

ABSTRACT: For the numerical integration of the parabolic equation

$$\frac{\partial^2 u}{\partial x^2} = \frac{\partial u}{\partial t}, \quad 0 < x < 1, \quad t > 0, \quad u(x, 0) = f(x), \quad u(0, t) = u(1, t) = 0$$

the author proposes a method, the exactness of which is $O((\Delta x)^2)$, and for which the calculation of the next integration step is carried out directly without solution of algebraic systems of equations. Let

$\omega = \frac{(\Delta x)^2}{\Delta t} = \text{const} > 0; \quad 0 < \alpha < 1; \quad \delta = 0 \quad \text{for } m = 1 \text{ and } \delta = 1$
 for $m > 1$, $u[(i \pm p)\Delta x, q\Delta t] = u_{\pm p, q}$. Furthermore let be

$$S^{(m)}_{u_0, k}(i) = \frac{\omega^m}{2(\omega + \alpha)^m} (u_{-m, k+1} + u_{m, k+1}) + \frac{\omega^{m-1}(1-\alpha)}{2(\omega + \alpha)^m} (u_{-m, k} + u_{m, k}) +$$

Card 1/2

On the Question of the Numerical Integration of Parabolic Equations

20-1-8/42

$$+ \frac{d^{m-2}(\omega-\alpha)}{2(\omega+\alpha)^m} (u_{m-1,k} + u_{-(m-1),k}) + \frac{\omega^2}{2(\omega+\alpha)^2} \sum_{j=1}^{m-2} \frac{d^{j-1}}{(\omega+\alpha)} (u_{-j,k} + u_{j,k}) \\ + \frac{(\alpha+(\omega+\alpha))^2 - 2(\omega+\alpha)}{(\omega+\alpha)^2} u_{0,k} + \frac{1}{2(\omega+\alpha)} (u_{-1,k} + u_{1,k}), \quad (m=1, 2, \dots)$$

Then the author takes

$$(1) \quad u_{0,k+1}^{(i)} = S^{(m)} u_{0,k}^{(i)}$$

For $m = \alpha = 1$ it is the method described by Crank and Nicolson [Ref. 2].

Furthermore the author proposes a modified method due to (1) which seems to be suitable for quickly working computers. One Soviet and one foreign references are quoted.

PRESENTED: By A.A. Dorogomitsyn, Academician, May 23, 1957

SUBMITTED: May 9, 1957

AVAILABLE: Library of Congress

Card 2/2

20-118-6-10/43

AUTHOR: Saul'yev, V.K.**TITLE:** On Methods of Higher Precision and Two-sided Approximations
of the Solutions of Parabolic Equations (O metodakh povyshennoy
tochnosti i dvukhstoronnikh priblizheniyakh k resheniyu
parabolicheskikh uravneniy)**PERIODICAL:** Doklady Akademii Nauk, 1958, Vol 118, Nr 6, pp 1088-1090 (USSR)**ABSTRACT:** The problem

$$(1) \frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}, \quad 0 < x < 1, \quad 0 < t \leq T; \quad u(x, 0) = f(x), \quad u(0, t) = u(1, t) = 0$$

is solved with different arrangements with the aid of the difference method. It is asserted that one difference equation yields majorizing approximations and another difference equation yields minorizing approximations. The alternating application of both difference equations gives a stable method for the solution of (1). The author uses a difference equation which was already used in an earlier paper [Ref 1]. There is 1 table and 1 Soviet reference.

PRESENTED: September 11, 1957, by S.L.Sobolev, Academician
SUBMITTED: August 13, 1957

Card 1/1

AUTHOR:

Saul'yev, V.K.

20-119-4-8/59

TITLE:

Solution of Parabolic Equations of Arbitrary Order With the
Net Method (Resheniye parabolicheskikh uravneniy proizvol'-
nogo poryadka metodom setok)

PERIODICAL:

Doklady Akademii Nauk ^{USSR,} 1958, Vol 119, Nr 4, pp 655-658 (USSR)

ABSTRACT:

The equation

$$\frac{\partial U}{\partial t} + (-1)^m \frac{\partial^{2m} U}{\partial x^{2m}} = 0 \quad m = 2, 3, \dots$$

with the boundary conditions

$$U(x, 0) = f(x) \quad (0 < x < 1)$$

$$\frac{\partial^{2p} U(0, t)}{\partial x^{2p}} = \frac{\partial^{2p} U(1, t)}{\partial x^{2p}} = 0 \quad (p=0, 1, \dots, m-1; 0 \leq t \leq T)$$

is solved with the aid of the net method. The author gives conditions for the stability and convergence of the net method and investigates some single cases. There is 1 Soviet reference.

Card 1/2

16(1), 16(2)

AUTHOR:

Saul'yev, V.K.

SOV/20-125-1-11,67

TITLE: On the Numerical Integration of the Heat Conductivity Equation
(O chislennom integrirovani uравнения теплопроводности)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr. 1, pp 48-50 (USSR)

ABSTRACT: For the numerical integration of the equation

$$\frac{\partial U}{\partial t} = \Delta U, \quad \Delta = \sum_{i=1}^m \frac{\partial^2}{\partial x_i^2}$$

the author proposes several difference schemes being more complicated but also more exact than the usual ones. For the calculation of a knot he demands 13 instead of 6 arithmetic operations; the error amounts $O(h^4)$ instead of the usual $O(h^2)$. Thereby, in the total calculation an essentially smaller number of knots can be considered so that the computing machine becomes relieved. The author gives an example calculated by M.I. Malova on the computing machine "Strela" at the Chair of Numerical

Card 1/2

10

SOV/20-125-1-11/ 67

On the Numerical Integration of the Heat
Conductivity Equation

Mathematics of the Moscow University. The proposed schemes
cannot be extended to equations with variable coefficients.
The author thanks the member of the Academy S.L.Sobolev for
valuable discussions.

There are 3 Soviet references.

PRESENTED: November 14, 1958, by S.L.Sobolev, Academician

SUBMITTED: November 13, 1958

Card 2/2

PHASE I BOOK EXPLOITATION

sov/4481

Saul'yev, Vladislav Kliment'yevich

Integrirovaniye uravneniy parabolicheskogo tipa metodom setok (Integration of Equations of the Parabolic Type by the Relaxation Method) Moscow, Fizmatgiz, 1960. 324 p. (Series: Biblioteka prikladnogo analiza i vychislitel'noy matematiki) 7,000 copies printed.

Sponsoring Agency: Moskovskiy gosudarstvennyy universitet. Kafedra vychislitel'noy matematiki.

Ed. (Title page): L.A. Lyusternik; Ed. (Inside book): G.I. Biryuk; Tech. Ed.: V.N. Kryuchkova.

PURPOSE: This book is intended for readers working in the field of practical application of numerical methods to parabolic or elliptic equations, in particular, to heat-conduction and Laplace equations.

COVERAGE: The book discusses solutions of partial differential equations of parabolic type by the relaxation method. Certain fundamentally new relaxation methods are considered, and the problem of practical solution of systems of finite-difference

Card 1/4

71

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

ALEKSANDROV, P. S.; VISHIK, M. I.; SAUL'YEV, V. K.; EL'SGOL'TS, L. E.

Lazar' Aronovich Liusternik; on his 60th birthday. Usp. mat.
nauk 15 no.2:215-230 Mr-Ap '60. (MIRA 13:9)
(Liusternik, Lazar' Aronovich, 1899-)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

0.0000

77816
SOV/42-15-1-23/27

AUTHORS: Lyusternik, L. A., Saul'yev, V. K.

TITLE: Concerning the Necessity of Publishing an All-Union Journal on Calculus

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol 15, Nr 1,
pp 257-258 (USSR)

ABSTRACT: Some 150 to 200 papers on applied mathematics published annually in the USSR become scattered in numerous periodicals because no special journal exists. Papers on computation techniques are scattered similarly. Occasionally-issued symposiums cannot substitute for a periodical. Meanwhile, the situation in foreign countries is favorable. There are 8 such special journals in English and 3 in German. This method of publishing scientific papers on calculus in USSR journals is considered unsatisfactory.

Card 1/1

0.0000

77820
SOV/42-15-1-27/27

AUTHOR:

Saul'yev, V. K.

TITLE:

Concerning References to Mathematical Literature

PERIODICAL:

Uspekhi matematicheskikh nauk. 1960, Vol 15, Nr 1,
pp 263-264 (USSR)

ABSTRACT:

The necessity of standard abbreviation of periodical is noted, and "Ukazatel'sokrashchennykh i polnykh nazvaniy nauchnoy i tekhnicheskoy literatury" (Index of Abbreviated and Full Names of Scientific and Technical Literature), published by the Academy of Sciences of the USSR, 1957, is recommended to follow. The Russian transliteration of foreign names should also be standardized. There are 8 references.

Card 1/1

38120

16.6900

S/020/62/144/003/004/030
B112/B104AUTHOR: Saul'yev, V. K.

TITLE: A method for automation of the solution to boundary-value problems by quick-action computers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 497-500

TEXT: A boundary-value problem

$\Delta U = (1/x^\delta) \partial(x^\delta \partial U / \partial x) / \partial x + \partial^2 U / \partial y^2 = -f$ in G , $U = 0$ on S ($\delta = 0$ or 1)
is reduced to a corresponding boundary-value problem $\Delta V = -f$ for $\bar{\Pi}^{(pq)} \subset G_1$,
 $\Delta V = 0$ for $\bar{\Pi}^{(pq)} \subset R \setminus G_1$, $V = 0$ on S_0 , $[V]_{p,q} = [V]_{p',q}$, ($p = p'$ and
 $q \neq q'$, or $p \neq p'$ and $q = q'$) on $\bar{\Gamma}$, $[\partial V / \partial \nu]_{p,q} = \lambda [\partial V / \partial \nu]_{p',q}$, ($p = p'$
and $q \neq q'$, or $p \neq p'$ and $q = q'$) on Γ for a rightangled domain R which
is subdivided into rightangled domains $\bar{\Pi}^{(pq)}$. The domain G is approximat-
ed by a domain G_1 consisting of rightangled domains $\bar{\Pi}^{(pq)}$. S_0 is the

Card 1/2

S/020/62/144/004/004/024
B172/B112

AUTHOR: Saul'yev, V. K.

TITLE: Homogeneous networks

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 4, 1962, 723-726

TEXT: Boundary value problems for differential equations with discontinuous coefficients are considered. In choosing a network for the application of a difference method, a distinction has to be made between points where the coefficients are continuous and points where they are not. In the continuity points the differential equation has to be approximated, whereas in the discontinuity points certain conditions of compatibility have to be taken into account. The ensuing system of formulas calls for complicated programming and involves inaccuracies. A homogeneous network, the construction of which is described by taking a two-dimensional Poisson equation with piecewise constant coefficients as an example, is more suitable. A nine-point equation containing two unknown parameters is obtained for calculating the solution. The adequate selection of these points is discussed. There is 1 figure. /B

Card 1/2

S/208/63/003/001/012/013
B112/B102

AUTHOR: Saul'yev, V. K. (Moscow)

TITLE: Multiparametric families of difference equations for the numerical integration of non-stationary diffusion equations

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 3, no. 1, 1963, 198-201

TEXT: The equation

$$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$$

(0)

is approximated by the difference equation

$$-\sum_{i=1}^4 \alpha_i \bar{u}_i + (\sum_{i=1}^4 \alpha_i + \omega) \bar{u}_0 = \sum_{i=1}^4 (1 - \alpha_i) u_i - (4 - \sum_{i=1}^4 \alpha_i - \omega) u_0. \quad (1)$$

The designations are: $u_0 = u$, $u_1 = u(x + h, y)$, $u_2 = u(x, y + h)$,

Card 1/2

45139

S/089/63/014/002/009/019
B102/B186

21.1000

AUTHORS:

Shevelev, Ya. V., Saul'yev, V. K.

TITLE:

Some aspects of the application of a two-dimensional two-group diffusion program

PERIODICAL: Atomnaya energiya, v. 14, no. 2, 1963, 200 - 205

TEXT: A program for the numerical solution of the reactor equations

$$-\operatorname{div}(D_1 \operatorname{grad} \Phi_1) + \Sigma_1 \Phi_1 = \frac{1}{k_e} \Sigma_{2 \rightarrow 1} \Phi_2; \quad (1)$$

$$-\operatorname{div}(D_2 \operatorname{grad} \Phi_2) + \Sigma_2 \Phi_2 = \Sigma_{1 \rightarrow 2} \Phi_1 \quad (2)$$

$$-\operatorname{div}(D \operatorname{grad} D) + \Sigma \Phi = F \quad (3)$$

in two-group diffusion approximation and in plane geometry was established at the Ordyna Lenina Institut atomnoy energii AN SSSR (Lenin Order Institute of Atomic Energy AS USSR) in the years 1957 - 1958. The present purpose was to find out how far this program can be extended to a larger area of the reactor problems under the same simple assumptions as to the integration

Card 1/3

s/089/63/014/002/009/019
B102/B186

Some aspects of the application...

domain and properties of symmetry and continuity. The solution of Eq. (1) - (3) depends on an application of the net method and on using an iteration procedure for solving the system of net equations. For this purpose the rectangular integration domain R is covered in such a manner with the net lines that the latter coincide with the lines of discontinuity of the coefficients D_i , Σ_i , $\Sigma_{2 \rightarrow 1}$, and $\Sigma_{1 \rightarrow 2}$. For carrying out this program it is necessary that R be regularly expressible as the sum of elementary rectangles. This is made possible by a linear continuation of the discontinuity lines of the coefficients up to the surface of R. One has thus the system of net equations for all nodes inside of R plus the boundary conditions on the surface of R which together form a system of linear algebraic equations that can be solved by iteration. The relaxation factors of the consecutive upper relaxations are automatically selected as optimal. This happens in block 2 of the three-block program. Block 1 is the principal block; blocks 2 and 3 are auxiliary blocks which work only in the first stage of computation; 3 serves to formulate the commands. In practice there are a number of cases for which the program is suitable in first approximation, but also elements which are contradictory to it. Some examples of such cases are given and it is shown how the program can be

Card 2/3

SHEVELEV, Ya. V.; SAUL'YEV, V. K.

Some aspects of the use of a two-dimensional two-group diffusion
program. Atom. energ. 14 no.2:200-205 F '63.
(MIRA 16:1)

(Programming(Electronic computers))
(Nuclear reactors)

SAUL'YEV, V.K. (Moskva)

Multiparameter families of difference equations for numerical
integration of equations of unsteady diffusion. Zhur.vych.mat.
i mat.fiz. 3 no.1:198-201 Ja-F '63. (MIRA 16:2)
(Difference equations) (Diffusion) (Differential equations)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUL'YEV, V.K. (Moskva)

Calculation of the eigenvectors of matrices by the double iteration
method. Zhur. vych. mat i mat fiz. 3 no.6:1112-1113 N-D '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

ACCESSION NR: AP3004305

S/0199/63/004/004/0912/0925

AUTHOR: Saul'yev, V. K.

TITLE: On the solution of certain boundary-value problems on high-speed computers by the method of fictitious domains

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 4, no. 4, 1963, 912-925

TOPIC TAGS: boundary value problem, fictitious domain programming method, differential operator, high speed computer, diffusion coefficient

ABSTRACT: The problem of programming high-speed computers for the solution of a wide range of boundary-value problems for differential equations containing an operator of the form

$$D\Delta U = aU,$$

where,

$$\Delta = \frac{\partial^2}{\partial r^2} + \frac{r}{r} \frac{\partial}{\partial r} + \frac{\partial^2}{\partial z^2}$$

Card 1/3

ACCESSION NR: AP3004305

and coefficients D and a are piecewise constant functions, is studied under the assumptions that the boundary S of a given variability domain G for variables r and z consists of straight-line segments parallel to coordinate axes r and z and that their number is not large. Two examples are presented in which the solution is reduced to that of a boundary-value problem for this type of equation. The method of programming, called the method of fictitious domains, is developed on the basis of the well-known fact that in a medium with relatively large values of the diffusion coefficient, there is a relatively small variation in the density of the diffusing substance; i.e., for subdomains G^* of the domain G in which the values of D are relatively large, there is a small variation in the values of the function U . The essence of the method consists in introducing a fictitious domain (one where the values of D are relatively large) such that when it is added to given nonrectangular domains G , a rectangular domain is formed for which programming is not difficult. The fundamental properties of this method are indicated, and the basic idea of its application is demonstrated by solving two particular boundary-value problems. Orig. art. has: 30 formulas and 6 figures.

Card 2/12

L 50521-65 EWT(d) Pg-4 IJP(c)
ACCESSION NR: AP5013107

UR/0376/65/001/003/C421/0425

AUTHOR: Saul'yev, V. K.

25
24
B

TITLE: Regular inhomogeneous grid schemes and quasi-stability

SOURCE: Differentsial'nyye uravneniya, v. 1, no. 3, 1965, 421-425

TOPIC TAGS: differential equation, finite difference, approximation calculation,
stability

16

ABSTRACT: The author introduces the notion of quasi-stability for grid schemes
and shows that the schemes introduced by the author in a previous work
(Integrirovaniye uravneniy parabolicheskogo tipa metodom setok. Fizmatgiz, M.,
1960) on a square grid with a first stage in which the nodes for which $i+j$ is
odd are calculated by the usual explicit formula

$$u_{i,j,k+1} = (1 - 4r)u_{i,j,k} + r(u_{i-1,j,k} + u_{i+1,j,k} + u_{i,j-1,k} + u_{i,j+1,k}) \quad (1)$$

and in whose second stage, using these values $u_{i,j,k+1}$ he calculates the

Card 1/2

L 50521-55

ACCESSION NR: AP5013107

remaining nodes (for which $i+j$ is even) also explicitly by the usual "implicit" formulae

$$u_{i,j,k+1} = \frac{1}{1+4r} (u_{i,j,k} + r(u_{i-1,j,k+1} + u_{i+1,j,k+1} + u_{i,j-1,k+1} + u_{i,j+1,k+1})) \quad (2)$$

for solution of

$$\frac{\partial U}{\partial t} = \frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2}$$

is quasi-stable for

$$r < \frac{1}{2}$$

(2)

(3)

Orig. art. has: 15 formulas and 2 tables.

ASSOCIATION: Moskovskiy aviationsionnyy institut im. S. Ordzhonikidze (Moscow Aviation Institute)

SUBMITTED: 26Oct64

ENCL: 00

SUB CODE: MA

NO REF Sov: 002

OTHER: 000

Card 2/2 me

L 22020-66 EWT(d) IJP(c)

ACC NR: AP6005013

SOURCE CODE: UR/0208/66/006/001/0163/0170

AUTHOR: Saul'yev, V. K. (Moscow)

ORG: none

K6, 44, 55

21

B

TITLE: Numerical solution of boundary value problems for multiply-connected regions bounded by eccentric circumferences

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 1, 1966, 163-170

TOPIC TAGS: boundary value problem, differential equation, approximation calculation, numeric solution, iteration, Laplace equation

ABSTRACT: The author considers the problem of the dependence of stability on certain grid approximations on a special orthogonal grid, and the dependence of the rate of convergence of his iteration scheme on the amount of eccentricity of a region bounded by two eccentric circumferences. He treats boundary conditions involving normal derivatives and interior conjugacy conditions for the Laplace equation. Crig. art. has: 17 formulas and 1 figure.

SUB CODE: 12/ SUBM DATE: 24Feb65/ ORIG REF: 001

Card 1/1 ✓

UDC: 518:517.944/.947

2

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUMAN, Z.

"The chemistry of cements", edited by H.F.W.Taylor. Reviewed
by Z.Sauman. Chem zvesti 19 no.6:510-512 '65.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUER, Z.

Experiences with the apparatus for differential thermal analysis at the Research Institute for Building Materials in Brno. p. 131. (SILIKATY, Vol. 1, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

✓ Conditions for the determination of potassium and sodium
in silicates by flame photometry. Zdenek Surpaga (Výz-
vadovského v. Štavěračků) J. B. Chem. Festschrift
11, 168-74 (1957) (German summary). A flame photo-
metric method to det. K₂O and Na₂O in silicates is described.
The mutual effect of K and Na, a great disturbing effect of
Ca, and almost negligible effect on Al at higher concns. of
Al₂O₃ was detd. Fe₂O₃ and MgO up to 10-15% have no ef-
fect. The accuracy of this method is not as good as Law-
rence-Smith's method but it is time saving and can be car-
ried out with less-qualified persons. Jim Moore

SAUMAN, Z

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Inorganic Substances. E-2

Abs Jour: Ref. Zhur-Khimiya, 1958, No II, 35883.

Author : Z. Sauman.

Inst : Not given.

Title : The Determination of Potassium and Sodium in Cement
Raw Material and In Objects Manufactured From Cement
by Method of Flaming Photometry.

Orig Pub: Stavivo, 1957, 35, No 12, 483-486.

Abstract: It is a review. Bibl. 30 titles.

Card : 1/1

8

SAUMAN, Zdenek

Calcium hydrosilicates with bonding properties. Silikaty
6 no.2:221-231 '62.

1. Vyzkumny ustav stavebnich hmot, Brno.

SAUMAN, Zdenek

Study of the hydration of $3\text{CaO}\cdot\text{SiO}_2$ and $\beta\text{-CaO}\cdot\text{SiO}_2$ under hydrothermal conditions. Silikaty 8 no. 3:185-195 1964.

• 1. Research Institute of Building Materials, Brno.

SAUNIN, V.I., inzh.

Experimental study of the thermal conditions in the operation of
the heating cylinders of papermaking machines. Trudy LTITSBP
no.11:43-48 '62. (MIRA 16:10)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

ZHUCHKOV, P.A.; SAUNIN, V.I.

Thermal conditions of the work of the drying cylinders of paper-making machines. Trudy LTITSBP no.13:140-143 '64.

(MIRA 18:2)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

L 14418-66 EWP(z)/EWT(m)/EWP(b)/EWA(d)/EWP(t) IJP(c) MJW/JD/WB
ACC. NR. AP6002123 SOURCE CODE: UR/0369/65/001/006/0717/0719

AUTHOR: Moroz, V. G.; Zelentsov, P. N.; Ivako, L. P.; Saunin, V. I.; Fereferov, Yu. I.

ORG: NII of Petroleum Machinery, Angarsk (NII neftyanogo mashinostroyeniya)

TITLE: Effectiveness of ^{18,44,55} cladding layer of OKh13 steel on sheets of 20K steel
against hydrogen corrosion

SOURCE: Fiziko-khimicheskaya mehanika materialov, v. 1, no. 6, 1965, 717-719

TOPIC TAGS: steel, protective coating, hydrogen embrittlement, metal cladding

ABSTRACT: To determine the extent to which a cladding layer of OKh13 steel protects 20K steel from hydrogen corrosion, clad and unclad samples were tested under identical conditions. The hydrogen composition was 92% H₂, 0.10-0.20% CO₂, 2.0-2.8% CH₄, 5.0-7.0% N₂. A layer of OKh13 steel 1.4-2mm thick was found to provide good corrosion protection at hydrogen pressures of 300, 200, and 100 atm. and temperatures of 400, 450, and 500C. Under these conditions, the unclad steel samples are decarburized. Experiments showed that the decrease in the ¹⁸ hydrogen permeability of the clad samples and hence, the desirable protective properties of the cladding layer are due to a hindering of the diffusion of

L 14418-66

ACC. NR.: AP6002123

hydrogen through OKh13 steel. A clad sample of 20K steel kept for 6154 hr. under 100 atm. hydrogen pressure at 500C showed a low hydrogen permeability, the absence of decarburization, and a good plasticity. Orig. art. has: 1 figure and 1 table.

SUB CODE: 11 / SUBM DATE: 17Dec64

hydrogen embrittlement | 8

jc

Card 2/2

SAUNINA, L.; SAKHNOVSKIY, M.

Spread progressive work practices among all workers. Sov.profso-
iuzy 3 no.9:25-28 S '55. (MIRA 8:12)

1. Zamestitel' predsedatelya zavkoma Khar'kovskogo zavoda trans-
portnogo mashinostroyeniya (for Saunina) 2. Chlen komissii po
proizvodstvenno-massovoy rabote zavkoma (for Sakhnovskiy).
(Technical education)

SAUNINA, L.; SAKHNOVSKIY, M.

By means of a tireless search. Sov. profsoiuzy 7 no.14:13-16 J1
'59. (MIRA 12:10)

1.Zamestitel' predsedatelya zavkoma Khar'kovskogo zavoda transportnogo mashinostroyeniya imeni Malysheva (for Saunina). 2.Nachal'nik byuro peredovykh metodov truda Khar'kovskogo zavoda transportnogo mashinostroyeniya imeni Malysheva (for Sakhnovskiy).
(Kharkov--Locomotive works)

SHAMAYEV, V.I.; SAUNKIN, O.F.

Determination of a microconcentration of gold in high purity
selenium. Izv.vys.ucheb.zav.; khim.i khim.tekh. 3 no.1:66-68
'60. (MIRA 13:6)

1. Kafedra tekhnologii radioaktivnykh, redkikh i rasseyennykh
elementov Moskovskogo khimiko-tehnologicheskogo instituta imeni
D.I. Mendeleyeva.
(Gold--Analysis) (Selenium--Analysis)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

VARSHAL, G.M.; BOGDANOVA, V.I.; SENYAVIN, M.M.; SAUNKIN, O.F.

Partition paper chromatography and its use for a relative concentration of elements. Trudy Kom. anal. khim. 15:358-367 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

L 51965-65 ENT(m)/EPF(n)=2/EWP(t)/EWP(b)/EWA(h) Peb/Pu-4 IJP(g)/DIAAP
ACCESSION NR: AT5012687 JD/JG UR/2513/65/015/000/0358/0367 31

AUTHOR: Varshal, G.M.; Bogdanova, V.I.; Senyavin, M.M.; Saunkin, O.F. 30

TITLE: Partition paper chromatography and its application to the relative concentration of elements B+1

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy, v. 15, 1965. Metody kontsentrirovaniya veshchestv v analiticheskoy khimii (Methods of concentrating substances in analytical chemistry), 358-367

TOPIC TAGS: paper chromatography, partition chromatography, trace element concentration, rare earth element? hibium analysis, tantalum analysis, cellulose column, neutron bombardment, activation analysis, gamma spectrometry 19

ABSTRACT: The article presents a brief general review of the basic principles of partition paper chromatography, and considers the characteristics of the method and its potential uses in the relative concentration of elements followed by their analytical determination. The separation of a mixture of rare earth elements, niobium, and tantalum was used as an example. Optimum conditions for this separation prevail in nitrate-thiocyanate and trichloroacetatenitrile systems, which were used in the experiments. To show the possibility of increasing the sensitivity of the partition chromatographic

Card 1/2

L-51965-65

ACCESSION NR: AT5012687

method, an activation determination of rare earth impurities was carried out in yttrium oxide in the zones of the impurity elements on paper; these zones were cut out and irradiated with neutrons, after which the gamma spectra of the preparation were recorded. It was found that by thus combining activation analysis with partition paper chromatography, one can raise the sensitivity to 10^{-3} - $10^{-4}\%$. The experimental and literature data show that the following two directions are promising: (1) determination of microimpurities by combining paper partition chromatography with such highly sensitive methods as radic activation, mass spectrometry, luminescence, polarography, and (2) chromatographic separation of many-component systems on cellulose columns for the purpose of separating appreciable amounts of pure substances. Orig. art. has: 3 tables and 1 formula.

ASSOCIATION: Komissiya po analiticheskoy khimii, AN SSSR (Commission on
Analytical Chemistry, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, NP

NO REF SOV: 014

OTHER: 016

me
Card 2/2

MARSHAKOV, I.K.; SAUNOVA, G.N.

Characteristics of the dissolution of copper and its alloys
in ammoniacal solutions. Izv. vys. ucheb. zav.; tsvet. met. 8
no.1:147-1, 1 '65. (MIRA 18:6)

1. Voronezhskiy gosudarstvennyy universitet, kafedra fizicheskoy
khimii.

RADOJKOVIC, Milan, ing., prof. (Beograd); MISKOVIC, St., ing. (Beograd);
HRJBAR, J., ing., prof. (Zagreb); HRUSKA BOZICEK, Bozena, ing. (Zagreb);
SAUPAH, L., ing. (Maribor); FERUSIC, Seid, ing. (Sarajevo)

Welding and related techniques in maintenance and repair. Zavarivac
no. 4:13-22 '59

1. Glavni i odgovorni urednik, "Zavarivac" (for Radojkovic.)
2. Clan Urednistva, "Zavarivac" (for Ferusic.)

Country : CZECHOSLOVAKIA

Category: Cultivated Plants. Fruit. Berries

H

Abs Jour: RZhDiol., No 11, 1958, No 49120

are carefully pruned. It is not recommended to prune the May growth. In Maribor, pruning according to the above described method produced a record peach crop: Pistoyna variety gave 9.2 tons/ha in the 3rd year, in the 4th - 15.1 tons/ha, in the 5th - 13.9 tons/ha.

Card : 2/2

M-165

JERETIN,S.; SAUPERL, V.

Measurement of blood loss in surgical interventions. Zdrav.
vestn. 33 no.8:205-208 '64

1. Reanimacijski center splosne bolnišnice Maribor (Sef: dr.
Stojan Jeretin); Centralni Laboratoriј splosne bolnišnice
Maribor (Predstojnik: Dr. Niko Jesenovec).

SAUR, A.M.

Red tape in designer work. Standartizatsiya 29 no. 9; 61 '65.
(MIRA 18:10)

1. Nachal'nik konstruktorskogo byuro Spetsial'nogo
konstruktorskogo byuro pri Vil'nyusskom zavode schetnykh
mashin.

L 51551-65

EWT(1)/EWT(m)/ENG(m)/T/EWP(t)/EWP(b) P1-4 IJP(c) RDW/JD/CG

ACCESSION NR: AP5010760

UR/0181/65/037/004/1271/1272

40

58

13

AUTHOR: Kireyev, P. S.; Orlova, N. N.; Saurin, V. N.; Strel'tsov, L. N.

TITLE: Shift of edge of intrinsic absorption under the influence of an electric field in films of GaAs, CdS, and CdTe.

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1271-1272

TOPIC TAGS: intrinsic absorption, absorption edge, electric field effect, thin film, gallium arsenide, cadmium sulfide, cadmium telluride

ABSTRACT: Although the shift of the edge of intrinsic absorption was investigated in many single crystals before, detailed investigations and comparisons with theory were made only for a few of the substances. The authors chose to investigate the effect in films of GaAs, CdS, and CdTe because such films can be produced readily with high resistances and can be investigated with standard apparatus using sources of relatively low voltage. The films were prepared by vacuum sputtering and measurements were made at room temperature. The degree of heating of the sample was monitored during the measurements to be able to account for the influence of the temperature on the measurement results. However, since the temperature rise did

Card 1/2

L 51551-65

ACCESSION NR: AP5010760

Z-

not exceed 5°C, the effect of the temperature could be neglected. The shift of the absorption edge was observed at fields on the order of 5×10^3 V/cm. The results do not agree with the theory of T. S. Moss (J. Appl. Phys. v. 32, 2136, 1961) and measurements will be repeated on films and single crystals using alternating fields and a wide range of temperatures, to check on the causes of this discrepancy.
"The authors are deeply grateful to A. P. Landsman for supplying the GaAs and CdTe films." Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: SS, OP

NR REF Sov: 002

OTHER: 007

bs
Card 2/2

LYSOV, N.; SAURNIKOV, P.

Rhythm of work in the shoe industry. Sots.trud 4 no.9:121-122
(MIR 13:1)
S '59.
(White Russia--Shoe industry)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAURNIKOV, P.A.; LYSOV, N.Ye.

Organization of work and technical standardization in the
factories of White Russia. Kozh.-obuv.prom. no.10:4-7
0 1959. (MIRA 13:2)
(White Russia--Shoe industry--Management)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

MAREY, A.N.; SAUROV, M.M.; LEBEDEVA, G.D.

Passage of radiostrontium through the food chain from open water
into human body [with summary in English]. Med.rad. 3 no.1:69-76
(MIRA 11:4)
Ja-F '58.

(STRONTIUM, radioactive,
water & food contamination (Rus)

(WATER POLLUTION,
by radiostrontium (Rus)

(FOOD,
contamination by radiostrontium (Rus)

ACC NR: AP6029986

SOURCE CODE: UR/0413/66/000/015/0194/0194

INVENTOR: Voronov, M. N.; Iyezuitov, V. M.; Morgunov, G. M.; Saurov, O. L.

ORG: none

TITLE: Mechanical lock. Class 62, No. 184144

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 194

TOPIC TAGS: aircraft landing gear, mechanical lock, handtool

ABSTRACT: An Author Certificate has been issued for a mechanical lock, such as for an aircraft's undercarriage, consisting of a cylinder with a rod which is locked in its terminal position in the cylinder by the use of a split collar supported by the shaft of a floating piston. To avoid the involuntary opening of the lock and the fixation of the piston in a position corresponding to the closed position of the rod, annular grooves are placed inside the piston and on the outside of the rod; in the piston, they are cylindrical, and in the rod, inside of which is installed a snap ring with a conical jut, they are conical. [KT]

SUB CODE: 01, 13/ SUBM DATE: 16Oct64

Card 1/1

UDC: 621.646.629. .135/138

SAUSA, Igor, promovany chemik

The preparation of phthalimide. Chem zvesti 16 no.7:574-576
J1 '62.

1. Technolog, Slovakoferma, n.p., Hlchovec.

SAUSA, J.

Winter and the railroads. p. 16.
(ZELEZNICAR, Vol. 6, no. 1, Jan. 1956, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

SAUSAS, L., red.; LUKOSEVICIUTE, O., tek. m. red.

[Ten years of the Soviet Lithuanian Consumers' Cooperative] Tarybu
Lietuvos vartotoju kooperacijos dvidesimtmetis. Vilnius, Respubli-
kinis mokslinės techninės informacijos ir propagandos institutas,
1961. Išv. [In Lithuanian] (MIRA 14:12)

1. Lietuvos Respublikine Vartotoju Kooperatyvu Sajunga.
(Lithuania---Cooperative societies)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

LUKOSHUNAS, S.I. [Lukoshunas, S.]; SAUSENAVICHUS, G.V. [Sausenavicus, G.]

The use of bitumen emulsions may extend the construction season
(formation of pavements). Avt.dor. 28 no. 3:23-25 Mr '65.

(MIRA 18:5)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHEV, Viktor Sergeyevich; PONOFIDIN, G.A., redaktor; AVRUSHCHENKO, R.A.,
redaktor; KONYASHINA, A., tekhnicheskiy redaktor

[Fire prevention inspection of petroleum storage stations] Pro-
tivopozharnoe obsledovanie neftebaz Moskva, Izd-vo Ministerstva
kommunal'nogo khoziaistva RSFSR, 1955. 45 p. (MIRA 9:2)
(Petroleum industry--Fires and fire prevention)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHEV, V.S., inzh.

Determining the temperature of self-ignition of meltable solid
and viscous liquid substances. Pozh. bezop. no.3:55-58 '64.
(MIRA 18:5)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHEV, V.S.; NAZAROV, V.V.

Fire hazards of acetaldehyde oxidation in the production of
acetic acid. Pozh. bezop. no.4:69-72 '65.

(MIRA 19:1)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHEV, V.S.; BYCHKOVA, N.M.; MARKOVSKIY, N.G.; KHOMENKO, M.S.

Temperature of ignition of high-molecular substances and their
heat of combustion. Pozh. bezop. no.4:87-90 '65.

(MIRA 19:1)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

ACC NR: AP6027121

(A)

SOURCE CODE: UR/0416/66/000/005/0039/0044

AUTHOR: Saushin, F. (Lieutenant General; Supply Service)

ORG: None

TITLE: Constant concern for the soldiers' diet

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 5, 1966, 39-44

TOPIC TAGS: food ration, food service equipment, food sanitation, food processing equipment, food preservation, military personnel, armed forces logistics

ABSTRACT: Developments in the entire gamut of activities connected with food supply for all of the armed forces are reviewed. The government's increased attention to improvement of food supplies for servicemen and recent steps to add variety to rations and to grant commanders the authority to make procurement agreements with local authorities in order to make better use of local food resources are all noted. The results of efforts by Military Districts and Fleets to make maximum use of their own food production capabilities are cited. The status of equipment for mess halls, sanitary conditions, food preparation, training of food service personnel, and food service, is examined. The KP-125 field kitchen and PAK truck mounted kitchen are described, as is the air-transportable field kitchen - dining room PKS-2M, and a new kitchen on an all-purpose caterpillar-tracked chassis currently being developed.

Orig. art. has: 2 figures.

SUB CODE: 06,15/3uBM DATE: None

Card 1/1

SAUSHIN, F., general-mayor

Military state farms strive to carry out the decisions of the
January Plenum of the Central Committee of the C.P.S.U.
Tyl i snab. Sov. Voor. Sil 21 no.4:15-18 Ap '61.

(MIRA 14:7)

(State farms)
(Military supplies)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHIN, F., general-major intendantskoy sluzhby; DVOYNIKOV, V., polkovnik

Zealously, in a managerial manner. Komm. Vooruzh. Sil 4
no.8:49-51 Ap '64. (MIRA 17:6)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHIN, F., general-major intendantskoy sluzhby

Prepare potatoes and vegetables at the proper time and without loss.
Tyl i snab. Sov. Voor. Sil. 21 no.8:33-38 Ag '61. (MIRA 14:12)
(Military supplies) (Vegetables)

SAUSHIN, F.S., general-major

New advances in food supply and necessities for the armed forces.
Tyl. i snab. Sov. Voor. Sil 21 no.6:70-71 Je '61. (MIRA 14:8)

1. Nachal'nik Upravleniya prodovol'stvennogo snabzheniya
Ministerstva oborony.
(Russia--Army--Commissariat)

SAUSHKIN, M.A.

Diagnostic scraping of the follicle in trachoma. Zdravookhranenie
2 no.6:47-48 N-D '59. (MIRA 13:6)

1. Iz Respublikanskoy bol'nitsy Moldavskoy SSR (glavnnyy vrach
Yu.B. Kasperskiy) i kliniki glaznykh bolezney (zav. - z.d.n.
prof. I.N. Kurlov [deceased]) Kishinevskogo meditsinskogo insti-
tuta.

(CONJUNCTIVITIS, GRANULAR--DIAGNOSIS)

DOLGONOS, B.M.; SAUSHKIN, M.A.

Ophthalmological aid in the work of the Republic Station of
Medical Aviation in the Moldavian S.S.R. Vest.oft. no.4:79-
80 '62. (MIRA 15:11)

1. Kafedra organizatsii zdravookhraneniya (zav. - dotsent M.Ya.
Gekhtman) i kafedra glaznykh bolezney (zav. - dotsent A.N.
Dobromyslov) Kishinevskogo meditsinskogo instituta i Respubli-
kanskaya klinicheskaya bol'ница.
(MOLDAVIA—OPHTHALMOLOGY) (MOLDAVIA—AVIATION MEDICINE)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Yu.

First Soviet book on theoretical problems in geography ("Theoretical problems in geography" by V.A.Anuchin. Reviewed by Iu.Saushkin).
Geog. v shkole 24 no.4:90-92 Jl-Ag '61. (MIRA 14:8)
(Geography) (Anuchin, V. A.)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUHKIN, Iu. G.

SAUHKIN, Iu. G. RSFSR: ekonomiko-geograficheskii ocherk, pod red. N.N. Baranskogo.
Moskva Gospolitizdat, 1938.
39 p.

DLC: DK18.S28

SO: LC, Soviet Geography, Part I, 1951, Uncl.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, YU. G.

USSR

"Planned Fish Breeding in Moscow and Rybinsk Water Reservoirs" in Moskovskoye more

SOURCE: P: Vokrug Sveta, Moscow May-June 1946

Abstracted in USAF "Treasure Island" Report No. 41424, on file in Library of Congress, Air Information Division.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Iu. G.

SAUSHKIN, Iu. G. Kompleksnoe razvitiye khoziaistva raionov SSSR v chetvertoi piatiletke.
(Voprosy geografii. SB. vtoroi, 1946. p. 5-10.)

DLC: G23.V6

SO: LC, Soviet Geography, Part I, 1951, Uncl.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, IU. G.

SAUSHKIN, IU. G. Raiony SSSR v pisliletnem plane vosstanovleniya i razvitiia narodnogo khoziaistva 1946-1950 gg. (Geografiia v shkole, 1946, no. 1., p. 5-12; no. 2., p. 1-11.)
DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Iu.C.

SAUSHKIN, Iu.C. ...Farkhadskaia gidroelektrostantsiia na Syr'-Dar'e. (Geografiia v shkole, no. 3, p. 17-18, 1946.).

DLC: Unclass.

SO: LC, Soviet Geography, Part II, 1951, Unclassified

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Yu. G. Dr. Geograph Sci.

Dissertation: "Geographical Sketches of Nature and Agricultural Activity of Population in Various Districts of the USSR." Moscow Order of Lenin State U imeni M. V. Lomonosov, 21 Apr 47.

SO: Vechernaya Moskva, Apr, 1947 (Project #17336)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHKIN, Yu.

"Voprosy Geografii, Geografiya Khozyaistva SSSR, 1917-1947," by N. Baranskiy and
Yu. Shashkin - Moscow, 1947

II

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

*SAUSHKIN, Yu. G.

"A Geographical Study of Rural Populated Points of the Soviet Union," Voprosy Geografii,
5th Symposium, 1947.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHKIN, Yu.G.

Detailed geography of Moscow. Geog. v shkole no.2:31-42 [Mr-App] '47.
(Moscow--Description) (MIRA 9:6)

SAUSHKIN, Yu.G.

Program of geographical study of a rural settlement.
Geog. v shkole no.3:56-59 My-Je '47. (MLRA 9:6)
(Geography)

1. SAUSHKIN, Yu. G. (Reviewer)
2. USSR (600)
4. Geology and Geography
7. Vasiliy Vasilevich Dokuchayev (Biography), I. Krupenikova and L. Krupenikova. (Moscow, Young guard, 1948). Reviewed by Yu. G. Saushkin, Sov. Kniga, No. 12, 1948.
9. [REDACTED] Report U-3081, 16 Jan. 1953, Unclassified.

SAUSHKIN, Yu. G.

Saushkin, Yu. G. "The great transformation of the geography of the forest-steppe and steppe of the European part of the USSR," On the decree of the Council of Ministers USSR and the Central Committee of the All-Union Communist Party (bolshevik), "Concerning the field-protective forest planting plan..."/, Geografiya v shkole, 1949, No. 1, p. 47-56, with pictures

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SAUSHKIN, Yu. G.

28620

SAUSHKIN, Yu. G. Velikoye preobrazovaniye geografii lesostep'ya i stepi evropeyskoy chasti SSSR. Uchen. zapiski (Mosk. Gos. Ped. IN-T im Lenina), T. LIV, 1949, S. 5-21.

SO: Letopis, No. 32, 1949.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSKIN, Yu. G.

24621 SAUSKIN, Yu. G. Kompleksnaya praktika studentov-geografov v Ozerskom rayone. Uchen. zapiski (Mosk. Gos. Ped. Inst. im. Lenina), T. LIV, 1949, S. 107-34.

SO: Letopis, No. 32, 1949.

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHKIN, IU. G.

Velikie stroiki Stalinskoi epokhi. The great constructions of Stalin epoch.
Geografiia v shkole, 1950, no. 6, p. 1-16).

Contains notes on transportation development in connection with the construction
of Kuibyshev and Stalingrad hydroelectric stations. (p. 4)

DIC: GL.G313

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952. Unclassified.

SAUSHKIN, IU.

Volgo-Donskii kanal. [The Volga-Don Canal]. (Sovkhoznaia gazeta, 1951, Jan.4).
DLC: Slavic unclass.

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress
Reference Department, Washington, 1952, Unclassified.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, YU. G.

SAUSHKIN, YU. G. The great transformation of nature in the Soviet Union Moscow,
Gos. izd-vo geogr. lit-ry, 1951. 122 p. (53-15286)

TC85.S3

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSHKIN, Yu G.

Velikoye preobrazovaniye prirody Sovetskogo Soyuza (Great transformation of nature in the Soviet Union) Izd. 2, d.p. Moskva, Geografgiz, 1952.
238 p. illus., maps. "Osnovnaya literatura": p. 230-(239)

SO: N/5
723.5
.S2
1952

SAUSHKIN, Yu. G.

Geography, Economic - Study and Teaching

Concerning the article of M. M. Zhirmunskii "Economic geography as a science."
Izv. AN SSSR. Ser. Geog. No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

SAUSHKIN, YU. G.

Geography, Economic

Textbook of economic geography of the U. S. S. R. awarded the Stalin prize. Geog. v
shkole, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1958, 2 Uncl.

1. SAUSHKIN, YU.
2. USSR (600)
4. Russia - Economic Policy
7. Great Soviet Union. Geog.v.shkole no. 6. 1952

9. MOnthly List of Russian Accessions, Library of Congress, March, 1953.Unclassified.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUCHKIN, Yu.G.

Great plan for the transformation of nature. Vop.geog. 28:11-41 '52.
(MIRA 7:5)
(Geography, Economic)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

I SAUSCHIN

"Concerning M. M. Jirmunschi's article, "The object of economic geography as a science." Tr from the Russian. p. 123. (ANALELE ROMANO-SOVIETICE. SERIA GEOLOGIE-GEOGRAFIE, Vol. 7, seria a II-a, no. 10, July/Aug. 1952, Bucuresti, Rumania.)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 7, July 1953, Uncl.

SAUSHKIN, Yu.

Science

"Man's effect on natural processes." Yu. Zhdanov. Reviewed by Yu. Saushkin. Geog. v
shkole No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Yu.G.

Laws of development of a geographical environment. Geog. v shkole. no.2:
1-9 Mr-Ap '53. (MLRA 6:5)
(Physical geography)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

SAUSEKIN, Yu.

Geography examinations for those who enter the Moscow State
University. Geog. v shkole no.6:65-66 N-D '53. (MLRA 6:12)
(Geography--Examinations, questions, etc.)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Yu.

The Academic Board discusses the plenum's decisions. Vest, Mosk.
un. 8 no.12:133-134 D '53.
(MLRA 7:2)
(Agriculture)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

TOP SECRET

SAUSHKIN, Yu.G.

Work of Karl Marx based on works of the Russian geographer P.P.
Semenov-Tian-Shanskii. Vop. geog. 31:123-131 '53. (MLRA 7:6)
(Marx, Karl, 1818-1883) (Semenov-Tian-Shanskii, Petr Petrovich,
1827-1914)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

SAUSHKIN, Yu.G.

Fundamental problems of economic geography of the U.S.S.R. Izv. Vses. geog.
ob-va 85 no.6:620-238 N-D '53. (MIRA 6:11)
(Geography, Economic)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8

BARANSKIY, N.N.; DOMETTI, A.A.; KALININ, F.P.; KONYAKHINA, O.I.;
PREOBRAZHENSKIY, A.I.; RAUSH, V.A.; SAUSHKIN, Yu.G.;
STROYEV, K.F.; TEREKHOV, P.G.

In illustrious memory of A.S.Barkov. Geog.v shkole no.2:61
Mr-ap '54. (MIRA 7:2)
(Barkov, Aleksandr Sergeevich, 1873-1954)

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310003-8"